## **AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application. Please cancel claims 1, 2, 4-7 and 35 without prejudice:

## **LISTING OF CLAIMS:**

- 1. 53.(Canceled).
- 54. (Previously Presented) A thermoplastic resin injection molding machine comprising:
  - a plasticating unit for plasticating a thermoplastic resin,
- an injecting unit connected to the plasticating unit through a connecting passage to inject the plasticated resin into a mold,
- a buffering unit having a buffering chamber having a volume at least equal to the injection quantity of the resin per shot, said buffering unit receiving the resin plasticated in the plasticating unit during an injection by the injection unit, and said buffering unit feeding a measured amount of the resin held in the buffering chamber into the injecting unit after injection by the injection unit, the buffering chamber provided in said plasticating unit, and
- a pressure sensor detecting a pressure in said buffering chamber wherein resin pressure is controlled to be constant in the buffering chamber based upon detected pressure.

- 55. (Previously Presented) A thermoplastic resin injection molding machine as claimed in claim 54, in which said buffering unit is contained in said plasticating unit, and further comprising a plunger disposed to be moved forward and backward, and means for energizing the plunger in the resin extrusion direction.
- 56. (Previously Presented) A thermoplastic resin injecting molding machine as claimed in claim 55, in which the energizing means comprises a spring.
- 57. (Previously Presented) A thermoplastic resin injection molding machine as claimed in claim 55, in which the energizing means comprises a fluid-pressure cylinder.
- 58. (Previously Presented) A thermoplastic resin injection molding machine as claimed in claim 55, in which the energizing means comprises an electric actuator.
- 59. (Previously Presented) A thermoplastic resin injection molding machine as claimed in claim 57, in which a constant fluid pressure from a fluid pressure source is transmitted to the fluid-pressure cylinder.
- 60. (Previously Presented) A thermoplastic resin injection molding machine comprising:

a plasticating unit for plasticating a thermoplastic resin,

an injecting unit connected to the plasticating unit through a connecting passage to inject the plasticated resin into a mold,

a buffering unit having a buffering chamber and receiving the resin plasticated in the plasticating unit, wherein the buffering unit is contained in the plasticating unit and is located in a longitudinal direction of the plasticating unit.

a screw contained in the plasticating unit,

a position detecting sensor detecting a change in position of the screw, and a controller calculating an amount of the resin in the buffering chamber based on the position of the screw and controlling the screw.

- 61. (Previously Presented) A thermoplastic resin injection molding machine as claimed in claim 60, wherein the buffering unit receiving the resin plasticated in the plasticating unit during an injection by the injection unit.
  - 62. (Canceled)
- 63. (Previously Presented) A thermoplastic resin injection molding machine as claimed in claim 60, wherein the screw is disposed to be moved forward and backward, and means for energizing the screw in the resin extrusion direction.
- 64. (Previously Presented) A thermoplastic resin injection molding machine as claimed in claim 63, in which the energizing means comprises a spring.

Attorney's Docket No. <u>018976-154</u> Application No. <u>09/470,967</u>

- 65. (Previously Presented) A thermoplastic resin injection molding machine as claimed in claim 63, in which the energizing means comprises a fluid-pressure cylinder.
- 66. (Previously Presented) A thermoplastic resin injection molding machine as claimed in claim 63, in which the energizing means comprises an electric actuator.
- 67. (Previously Presented) A thermoplastic resin injection molding machine as claimed in claim 60, wherein said screw provided in said plasticating unit is a reciprocating screw, said position detecting sensor detecting the position of said reciprocating screw to control an amount of resin input to the buffering unit and further comprising a pressure sensor detecting a pressure in said buffering unit.
- 68. (Previously Presented) A thermoplastic resin injection molding machine as claimed in claim 60, further comprising a pressure detecting sensor detecting a pressure in said buffering unit.
- 69. (Previously Presented) A thermoplastic resin injection molding machine as claimed in claim 68, wherein the screw is disposed to be moved forward and backward, and means for energizing the screw in the resin extrusion direction.
- 70. (Previously Presented) A thermoplastic resin injection molding machine as claimed in claim 63, further comprising a screw driving motor for rotating

the screw, wherein the screw and rotary shaft of the screw driving motor are separated from each other.

- 71. (Previously Presented) A thermoplastic resin injection molding machine as claimed in claim 69, in which the energizing means comprises a spring.
- 72. (Previously Presented) A thermoplastic resin injection molding machine as claimed in claim 69, in which the energizing means comprises a fluid-pressure cylinder.
- 73. (Previously Presented) A thermoplastic resin injection molding machine as claimed in claim 69, in which the energizing means comprises an electric actuator.